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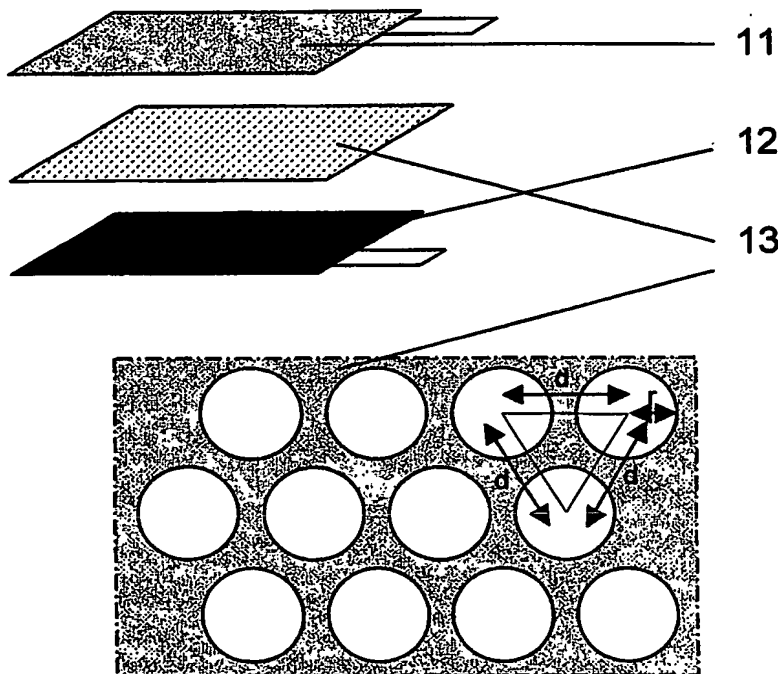
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(54) Title: RECHARGEABLE LITHIUM BATTERY USING SEPARATOR PARTIALLY COATED WITH GEL POLYMER



r: 0.2mm, d: 0.5mm

(57) Abstract: Disclosed are a separator for a battery, which is coated with a gel polymer over 40-60% of total separator area, and a rechargeable lithium battery using the separator. The separator partially coated with a gel polymer reduces the battery resistance so that the battery power can be improved. Additionally, the separator increases electrolyte impregnation rate and provides uniform electrolyte impregnation, thereby improving the life, capacity and high-rate discharge property of a battery. Further, the separator permits electrode reactions to be performed uniformly, thereby preventing lithium precipitation and improving the battery safety.

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